

# Heiland electronic GmbH

## TWO-FLASH MASK

**Facilitates the visual separation  
of subjects for photography**

### **User's manual**



**Version 1.1**



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# 1. Overview

Dear Customer,

Before using the HEILAND TWO-FLASH MASK please read these instructions carefully in order to completely familiarise yourself with it. A video demonstrating the optimal use of the device is available online <https://www.youtube.com/watch?v=LHbhdaWGawI>

## Packaging

The HEILAND TWO-FLASH MASK unit is delivered in shock-absorbent packaging. Please keep this packaging in case of shipping or repair.

# 2. Safety Information

To power the device use only the AC adapter which is supplied with the unit or a 9V battery. *Check that your voltage and frequency coincides with the identification label on the AC adapter unit.*

## SAFETY WARNINGS:

- To avoid internal damage and warranty infraction, replacement of the AC adapter with another should only be done with the consent of the manufacturer.
- Never open the AC adapter!
- Always keep the AC adapter dry and never immerse it in liquids, otherwise SEVERE DANGER will result!
- Route all cables neatly and safely, to avoid tripping.
- Do not connect older flash units which trigger the flash at high voltages
- Do not drop the device! Damage caused by dropping is excluded from the warranty
- Make sure that there is no pull on cables or connector sockets during operation

## Keep the following influences away from the device:

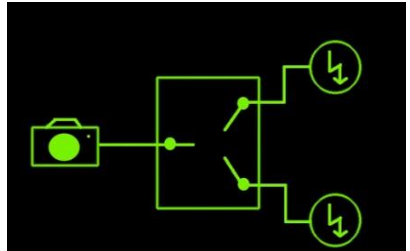
- Direct sunlight
- Direct tungsten light
- Other devices which emit heat
- Corrosive liquids or liquid chemicals
- Strong magnetic fields

### **3. Area of applications**

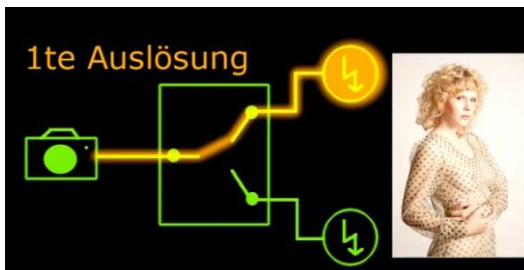
The HEILAND TWO-FLASH MASK device is designed to distribute one flash synchronisation signal to two separate flash units with a brief time-lag between them. Any other applications should be co-ordinated with Heiland electronic.

## 4. Operating principle

The HEILAND TWO-FLASH MASK works like a switch which is connected to a camera and *at least two Studio Flash Units*. When two exposures are made, the camera activates this "switch" which, in turn, triggers the *two flashes in quick succession*, both of whose exposures are then recorded by the camera.



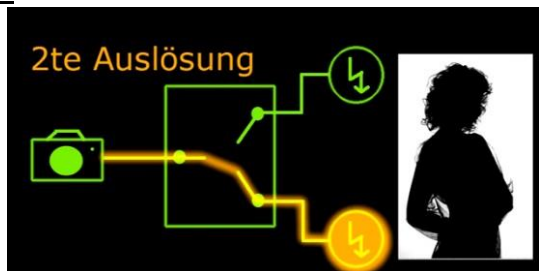
### First flash - "Foreground Shot"



The synchronising signal which triggers the first Studio Flash Unit illuminates a subject which is positioned *in front of a plain background*. This first recording serves to create a subject record which can be visually separated later.

### Second flash - "Background Shot"

A second synchronising signal follows rapidly and is routed to the second Studio Flash Units which are set up to illuminate *only the background itself* (either by light falling directly onto it, or by light coming from behind the background, toward the camera).



This *second recording* creates a silhouette of the subject against a white, plain, very light-coloured or deliberately overexposed background. Once this image is converted to monochrome and its contrast increased, the mask is ready to use. This mask can then be used for adding *any* desired background.

**Important Note:** *The two shots must be taken within approximately one second apart, otherwise the HEILAND TWO-FLASH MASK will automatically reset itself and the second recording will trigger the foreground flash again.*

## 5. Instrument description

Figure 1, front view

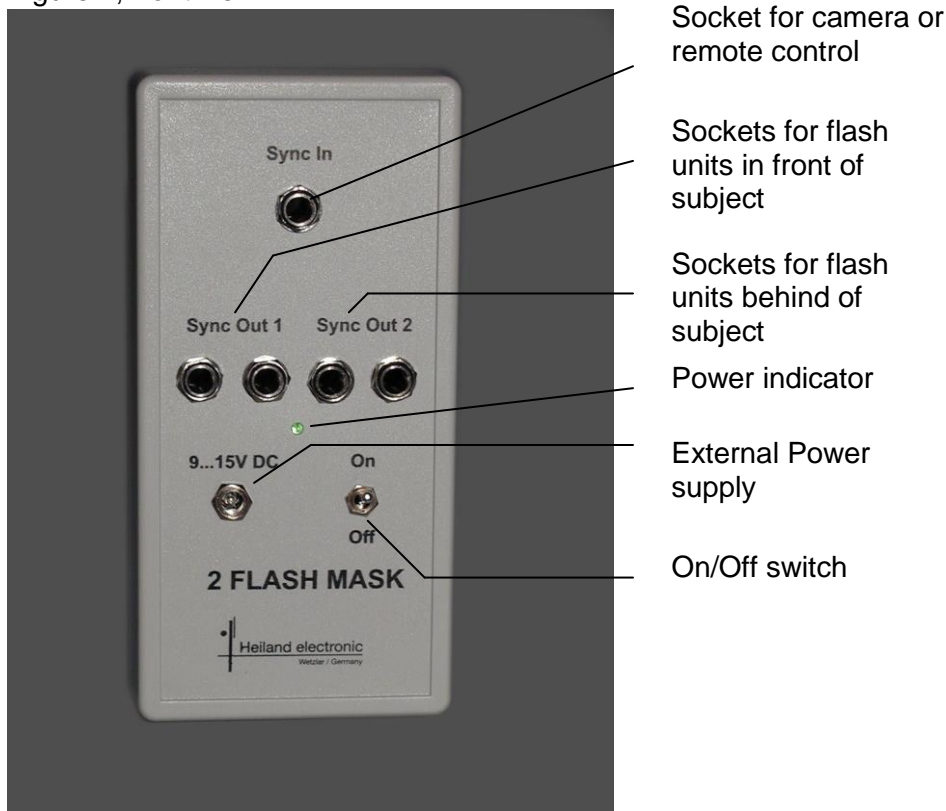


Figure 2, accessories

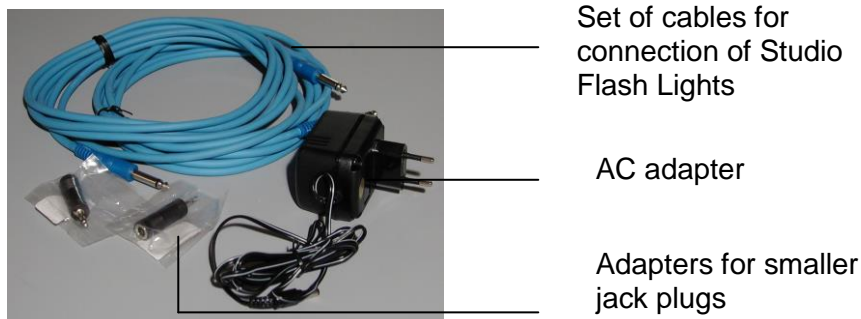
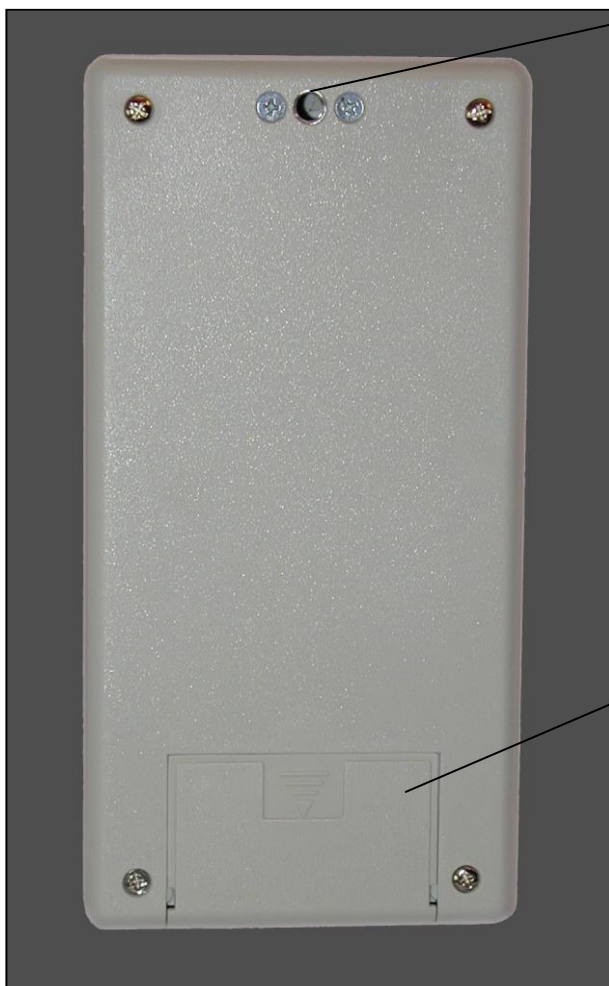




Figure 3, rear view



A threaded socket of size "1/4-20" at the rear of the device allows you to attach it to a stand, tripod or lighting adapter

Battery compartment

## 6. Using the unit

### 6.1 Connecting the camera and Studio Flash lights

- Connect your camera or a remote control release to the socket labeled "Sync In"
- Connect the Studio Flash Units which serve to illuminate the front side of the subject to 'Sync Out 1' sockets. Both of these sockets trigger at the same time.
- Connect the Studio Flash Units which serve to illuminate the background to the 'Sync Out 2' sockets. Here to, both socket trigger at the same time.

### 6.2 Start of operation

Connect the AC adapter to the socket labeled "9...15V DC". Plug the other end into an AC outlet. Alternatively, you can use a 9V battery for power (installed at the rear).

**..... Turn the unit on and begin your work !**

### 6.3 End of operation

Turn the device off and disconnect the AC adapter from the AC outlet. If necessary (as in the case of long term storage), remove the battery.

## 7. Accessories

- 4 cables with 6.3 mm jack plug
- 4 Adapters 6.3 mm -> 3 mm jack
- 1 Adapter 3mm -> 6,3mm jack
- 230V AC ->12V DC or 110V AC -> 12V DC plug-in AC adapter

## 8. Specifications

- Dimensions (length x width x height) : 170 x 85 x 46mm
- Weight : ca. 0,2 kg
- Power : 9...15V DC  
by means of a plug-in AC adapter or a 9V battery
- Power consumption : less 1 W
- Delay between Sync In and Sync Out : < 10µs
- Maximum time between to 2 shots : about 1s
- Maximum voltage at Sync In : 10V
- Maximum voltage at Sync Out : 200V
- Maximum current at Sync Out : 1A
- Temperature range : 10... 30 °C
- Relative Humidity: : 0 ... 70 %

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